



Clean Michigan Initiative Nonpoint Source Grant

Tracking code 2002-0020



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Saginaw Bay Watershed Livestock Exclusion

January 12, 2001 through December 31, 2005

The Saginaw Bay Watershed includes all or part of 22 counties in east/central Michigan. A Michigan DEQ-SWQD survey identified animal access sites within the watersheds contributing sediment and nutrient loading to the Bay. The goal of the project was to reduce the nutrient loading to the Saginaw Bay caused by livestock access to drains of the watershed.

Grant Amount: \$ 472,000

Match Funds: \$ 161,338



Total Amount: \$ 633,338

Saginaw Bay Watershed

Best Management Practices:

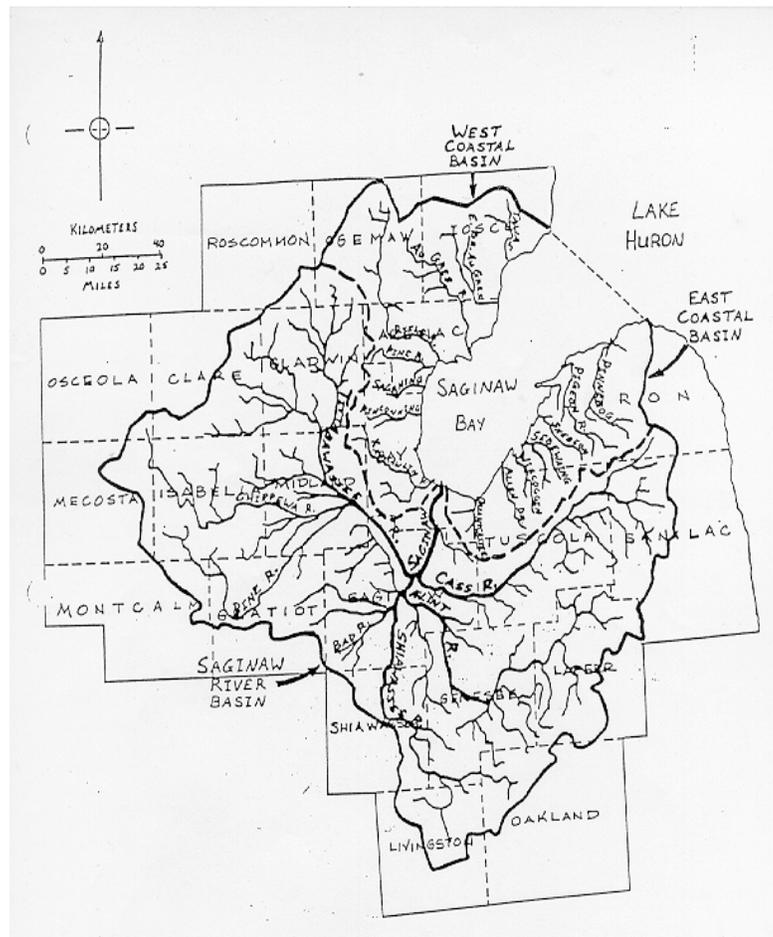
- 21 landowners developed conservation plans on 22 farms
- Exclusionary fencing installed- 75,668'
- 20 Livestock crossing installed
- 4 Alternative watering sources including ponds, wells, and fountains

Annual Load Reductions:

- 4,699 Tons of Sediment
- 5,631 pounds of phosphorus
- 12,542 pounds of nitrogen

Partners involved:

- Conservation Districts
- Drain Commissioners
- MSU Extension
- USDA Natural Resources Conservation Service
- Great Lakes Commission
- Michigan Department of Environmental Quality
- County Soil Erosion Control Offices





Cattle access to pond before improvements.



Cattle access after restoration.



Cattle Damage to Side Slopes



After restoration and cattle exclusion



Cattle Damage to Side Slopes



After Restoration and Exclusion